Dell™ S2209W Flat Panel Monitor User's Guide

About Your Monitor

Setting Up the Monitor

Operating the Monitor

Solving Problems

Appendix

Notes, Notices, and Cautions

NOTE: A NOTE indicates important information that helps you make better use of your computer.

NOTICE: A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

CAUTION: A CAUTION indicates a potential for property damage, personal injury, or death.

Information in this document is subject to change without notice.
© 2008–2009 Dell Inc. All rights reserved.

Reproduction of these materials in any manner whatsoever without the written permission of Dell Inc. is strictly forbidden.

Trademarks used in this text: *Dell* and the *DELL* logo are trademarks of Dell Inc; *Microsoft* and *Windows* are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries; *Adobe* is a trademark of Adobe Systems Incorporated, which may be registered in certain jurisdictions.

Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell Inc. disclaims any proprietary interest in trademarks and trade names other than its own.

Model S2209Wb

September 2009 Rev. A02

Back to Contents Page

About Your Monitor

Dell™ S2209W Flat Panel Monitor User's Guide

- Package Contents
- Product Features
- Identifying Parts and Controls
- Monitor Specifications
- Plug and Play Capability
- LCD Monitor Quality & Pixel Policy
- Maintenance Guidelines

Package Contents

Your monitor ships with the components shown below. Ensure that you have received all the components and contact Dell if something is missing.

NOTE: Some items may be optional and may not ship with your Monitor. Some features or media may not be available in certain countries.

	• Monitor with stand
	• Power Cable
	• VGA Cable
	• DVI Cable (Optional)

- *Drivers and Documentation* media
- *Quick Setup Guide*
- Safety Information

Product Features

The **S2209W** flat panel display has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD). The monitor features include:

- 21.5-inch (546.8 mm) viewable area display.
- 1920 x 1080 resolution, plus full-screen support for lower resolutions.
- Wide viewing angle to allow viewing from a sitting or standing position, or while moving from side to side.
- Tilt adjustment capability.
- Removable pedestal and Video Electronics Standards Association (VESA) 100 mm mounting holes for flexible mounting solutions.
- Plug and play capability if supported by your system.
- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.
- Software and documentation CD which includes an information file (INF), Image color Matching File (ICM), and product documentation.
- Security lock slot.

Identifying Parts and Features

Front View

Front View **Front panel controls**

Label	Description
1	OSD Menu/Exit
2	Brightness & Contrast/Up (^)
3	Auto-adjust/Down (v)
4	Input Source Select/Select
5	Power button (with power light indicator)

Back View

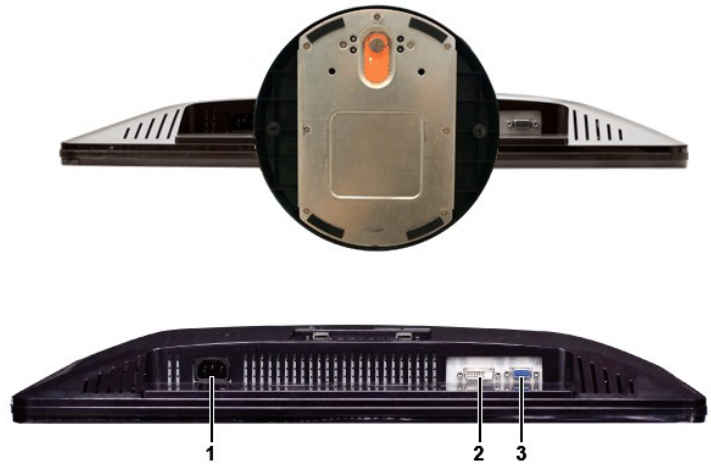
Back view **Back View with monitor stand**

	Label	Description / Use
1	VESA mounting holes (100mm) (Behind attached base plate)	To mount the monitor.
2	Barcode serial number label	To contact Dell for technical support.
3	Security lock slot	To help secure your monitor.
4	Dell Soundbar mounting brackets	To attach the optional Dell Soundbar.
5	Regulatory rating label	Lists the regulatory approvals.
6	Cable management slot	To organize cables by placing them through the slot.

Side View

Right side **Left side**

Bottom View



Bottom view

Label	Description
1	AC power cord connector
2	DVI connector
3	VGA connector

Monitor Specifications

Power Management Modes

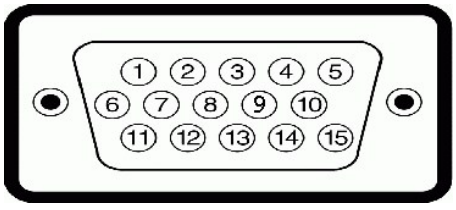
If you have VESA's DPMS™ compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. This is referred to as Power Save Mode. If input from a keyboard, mouse or other input devices is detected by the computer, the monitor will automatically "wake up". The following table shows the power consumption and signaling of this automatic power-saving feature:

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	White	42 W (maximum)
Active-off mode	Inactive	Inactive	Blanked	Amber	Less than 2 W
Switch off	-	-	-	Off	Less than 1 W

NOTE: Zero power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.

Pin Assignments

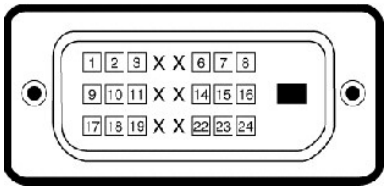
VGA Connector



Pin Number	15-pin Side of the Connected Signal Cable
1	Video-Red

2	Video-Green
3	Video-Blue
4	GND
5	Self-test
6	GND-R
7	GND-G
8	GND-B
9	Computer 5V/3.3V
10	GND-sync
11	GND
12	DDC data
13	H-sync
14	V-sync
15	DDC clock

DVI Connector



Pin Number	24-pin Side of the Connected Signal Cable
1	TMDS RX2-
2	TMDS RX2+
3	TMDS Ground
4	Floating
5	Floating
6	DDC Clock
7	DDC Data
8	Floating
9	TMDS RX1-
10	TMDS RX1+
11	TMDS Ground
12	Floating
13	Floating
14	+5V/+3.3V power
15	Self test
16	Hot Plug Detect
17	TMDS RX0-
18	TMDS RX0+
19	TMDS Ground
20	Floating
21	Floating
22	TMDS Ground
23	TMDS Clock+

24	TMDS Clock-

Flat Panel Specifications

Screen type	Active matrix - TFT LCD
Panel type	TN
Screen dimensions	21.5 inches (21.5-inch viewable image size)
Preset display area:	
Horizontal	476.64 mm (18.76 inches)
Vertical	268.11 mm (10.56 inches)
Pixel pitch	0.248 mm
Viewing angle	160° (vertical) typical, 170° (horizontal) typical
Luminance output	300 CD/m ²(typical)
Contrast ratio	1000 to 1 (typical)
Faceplate coating	Antiglare with hard-coating 3H
Backlight	CCFL edgelight system
Response Time	5 ms typical
Color Depth	16.7 mil colors
Color Gamut	85%*

* S2209W Color Gamut (Typical) is based on CIE1976 (85%) and CIE1931 (72%).

Resolution

Horizontal scan range	30 kHz to 83 kHz (automatic)
Vertical scan range	50 Hz to 76 Hz (automatic)
Maximum preset resolution	1920 x 1080 at 60 Hz

Video Supported Modes

Video display capabilities (DVI playback)	480i/480p/576i/576p/720p/1080i/1080p (Supports HDCP)

Preset Display Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/Vertical)
640 x 350	31.47	70.09	25.18	+/-
640 x 400	31.47	70.09	25.18	-/+
640 x 480	31.47	59.94	25.17	-/-
640 x 480	31.50	75.00	31.5	-/-
720 x 400	31.47	70.08	28.32	-/+
800 x 600	37.88	60.32	40.00	+/+
800 x 600	46.880	75.00	49.50	+/+
1024 x 768	48.36	60.00	65.00	-/-
1024 x 768	60.02	75.03	78.75	+/+
1152 x 864	67.50	75.00	108.00	+/+
1280 x 1024	63.98	60.02	108.00	+/+
1280 x 1024	79.98	75.02	135.00	+/+
1920 x 1080-R	66.587	59.934	138.50	+/-
1920 x 1080	55.62	49.92	141.50	-/+

Electrical

Video input signals	Analog RGB, 0.7 Volts +/- 5%, positive polarity at 75 ohm input impedance Digital DVI-D TMDS, 600mV for each differential line, positive polarity at 50 ohm input impedance
Synchronization input signals	Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG (Composite SYNC on green)
AC input voltage/frequency/current	100 to 240 VAC/50 or 60 Hz ± 3 Hz/2.0A (Max.)
Inrush iso surge current	110 V: 30 A (Max.) 220 V: 60 A (Max.)

Physical Characteristics

Connector type	ı D-sub: blue connector ı DVI-D: white connector
Signal cable type	ı D-sub: Detachable, Analog, 15pin, shipped attached to the monitor ı DVI-D (Optional): Detachable, Digital, 24pin, shipped detached from the monitor
Dimensions (with stand)	
Height	384.36 mm (14.990 inches)
Width	522.24 mm (20.560 inches)
Depth	222.635 mm (8.765 inches)
Dimensions (without stand)	
Height	313.71 mm (12.351 inches)
Width	522.24 mm (20.561 inches)
Depth	63.36 mm (2.494 inches)
Stand dimensions	
Height	285 mm (11.22 inches)
Width	222.6 mm (8.764 inches)
Depth	222.6 mm (8.764 inches)
Weight	
Weight with packaging	7.20 kg (15.876 lb)
Weight of Monitor and Stand Assembly	4.98 kg (10.98 lb)
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	3.84 kg (8.47 lb)
Weight of stand assembly	1.14 kg (2.51 lb)

Environmental

Temperature	
Operating	0° to 40° C (32° to 104°F)
Non-operating	Storage: 0° to 60° C (32° to 140° F) Shipping: -20° to 60° C (-4° to 140° F)
Humidity	
Operating	10% to 80% (non-condensing)
Non-operating	Storage: 5% to 90% (non-condensing) Shipping: 5% to 90% (non-condensing)
Altitude	
Operating	3,657.60 m (12,000 ft) max
Non-operating	12,192 m (40,000 ft) max
Thermal dissipation	154 BTU/hour (maximum) 119 BTU/hour (typical)

Plug and Play Capability

You can install the monitor in any Plug and Play-compatible system. The monitor automatically provides the computer system with its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols so that the system can configure itself and optimize the monitor settings. If required, the user can select different settings, but in most cases monitor installation is automatic.

LCD Monitor Quality & Pixel Policy

During the LCD Monitor manufacturing process, it is not uncommon for one or more pixels to become fixed in an unchanging state. The visible result is a fixed pixel that appears as an extremely tiny dark or bright discolored spot. When the pixel remains permanently lit, it is known as a "bright dot." When the pixel remains black, it is known as a "dark dot."
In almost every case, these fixed pixels are hard to see and do not detract from display quality or usability. A display with 1 to 5 fixed pixels is considered normal and within competitive standards. For more information, see Dell Support site at: support.dell.com.

Maintenance Guidelines

Caring for Your Monitor

CAUTION: Read and follow the Safety Instructions before cleaning the monitor.

CAUTION: Before cleaning the monitor, unplug the monitor from the electrical outlet.

For best practices, follow the instructions in the list below while unpacking, cleaning, or handling your monitor:

- To clean your antistatic screen, lightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning tissue or solution suitable for the antistatic coating. Do not use benzene, thinner, ammonia, abrasive cleaners, or compressed air.
- Use a lightly-dampened, warm cloth to clean the monitor. Avoid using detergent of any kind as some detergents leave a milky film on the monitor.
- If you notice a white powder when you unpack your monitor, wipe it off with a cloth.
- Handle your monitor with care as dark-colored monitors may scratch and show white scuff marks more than lighter-colored monitors.
- To help maintain the best image quality on your monitor, use a dynamically changing screen saver and turn off your monitor when not in use.

Back to Contents Page

Back to Contents Page

Appendix

Dell™ S2209W Flat Panel Monitor User's Guide

- Safety Instructions
- FCC Notice (U.S. Only) and Other Regulatory Information
- Contacting Dell

CAUTION: Safety Instructions

CAUTION: Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.

For information on safety instructions, see the *Safety Information*.

FCC Notice (U.S. Only) and Other Regulatory Information

For FCC notices and other regulatory information, see the regulatory compliance website located at www.dell.com\regulatory_compliance.

Contacting Dell

For customers in the United States, call 800-WWW-DELL (800-999-3355).

NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

1. Visit **support.dell.com**.
2. Verify your country or region in the **Choose A Country/Region** drop-down menu at the bottom of the page.
3. Click **Contact Us** on the left side of the page.
4. Select the appropriate service or support link based on your need.
5. Choose the method of contacting Dell that is convenient for you.

Back to Contents Page

Back to Contents Page

Setting Up Your Monitor

Dell™ S2209W Flat Panel Monitor

If you have a Dell™ desktop or a Dell™ portable computer with internet access

1. Go to **http://support.dell.com**, enter your service tag, and download the latest driver for your graphics card.

2. After installing the drivers for your Graphics Adapter, attempt to set the resolution to **1920x1080** again.

NOTE: If you are unable to set the resolution to 1920x1080, please contact Dell™ to inquire about a Graphics Adapter that supports these resolutions.

Back to Contents Page

Back to Contents Page

Setting Up Your Monitor

Dell™ S2209W Flat Panel Monitor

If you have a non Dell™ desktop, portable computer, or graphics card

1. Right-click on the desktop and click **Properties**.

2. Select the **Settings** tab.

3. Select **Advanced**.

4. Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).

5. Please refer to the graphics card provider website for updated driver (for example, **http://www.ATI.com** OR **http://www.NVIDIA.com**).

6. After installing the drivers for your Graphics Adapter, attempt to set the resolution to **1920x1080** again.

NOTE: If you are unable to set the resolution to 1920x1080, please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution of 1920x1080.

Back to Contents Page

Back to Contents Page

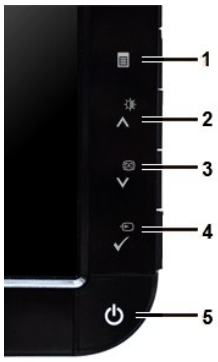
Operating the Monitor

Dell™ S2209W Flat Panel Monitor User's Guide

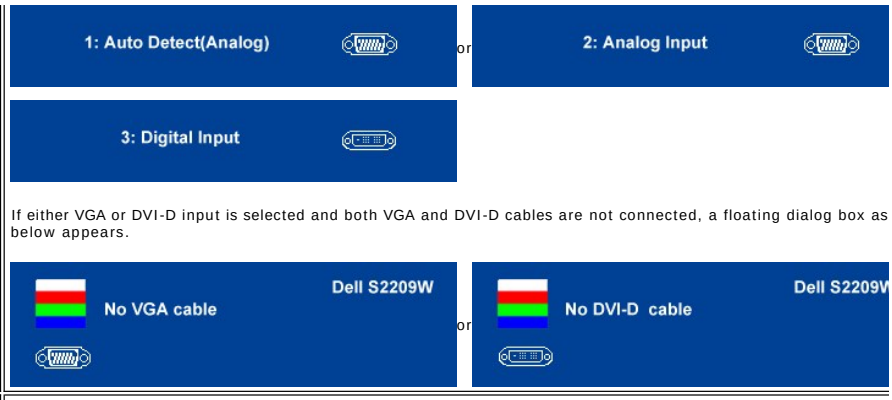
- Using the Front Panel Controls
- Using the On-Screen Display (OSD) Menu
- Setting the Maximum Resolution
- Using the Dell Soundbar (Optional)
- Using the Tilt

Using the Front Panel

Use the control buttons on the side of the monitor to adjust the characteristics of the image being displayed. As you use these buttons to adjust the controls, an OSD shows the numeric values of the characteristics as they change.



Front panel Button		Description
1	**OSD Menu / Exit**	The Menu button is used to open and exit the on-screen display (OSD), and exit from menus and sub-menus. See OSD Menu.
2	**Brightness /Contrast Hot Key**	Use this button for direct access to the "Brightness" and "Contrast" control menu.
2 and 3	**Down and Up**	Use these buttons to navigate and adjust the slider bar (decrease/increase ranges) controls in the OSD menu.
3	**Auto Adjust**	Use this button to activate automatic setup and adjustment. The following dialog appears on a black screen as the self-adjusts to the current input: Auto Adjustment in Progress... Auto Adjustment button allows the monitor to self-adjust to the incoming video signal. After using Auto Adjus can further tune your monitor by using the Pixel Clock (Coarse), Phase (Fine) controls in the OSD. **NOTE:** Auto Adjust does not occur if you push the button while there are no active video input signals or attac cables.
4	**Input Source Select / Select**	Use the Input Source Select button to select between different video signals that may be connected to your monit VGA input DVI-D input As you cycle through the inputs you will see the following messages to indicate the currently selected input source take a few seconds for the image to appear.

		 If either VGA or DVI-D input is selected and both VGA and DVI-D cables are not connected, a floating dialog box as below appears.
5	**Power button (with power light indicator)**	Use the power button to turn the monitor on and off. The white light indicates that the monitor is on and fully functional. An amber light indicates power save mode.

Using the On-Screen display (OSD) Menu

NOTE: If you change the settings and then either proceed to another menu, or exit the OSD menu, the monitor automatically saves the changes. The changes are also saved if you change the settings and then wait for the OSD menu to disappear.

1. Push to launch the OSD menu and display the main menu.

Main Menu for Analog (VGA) Input

Or

Main Menu for non Analog (non VGA) Input

NOTE: Auto Adjust is only available when you are using the analog (VGA) connector.

2. Push the ▼ and ▲ buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the table for a complete list of all the options available for the monitor.

3. Push the ✓ button once to activate the highlighted option.

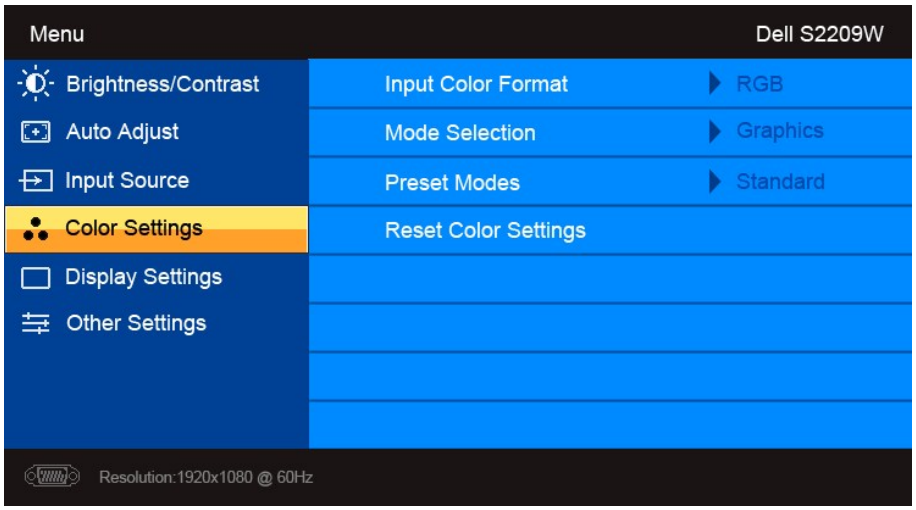
4. Push ▼ and ▲ button to select the desired parameter.

5. Push ✓ to enter the slide bar and then use the ▼ and ▲ buttons, according to the indicators on the menu, to make your changes.

6. Push ☰ to return to the main menu or exit the OSD menu.

Icon	Menu and Submenus	Description
☀	**Brightness/Contrast**	Allows you to adjust the brightness and contrast.
	Brightness	Brightness adjusts the luminance of the backlight. Push the ▲ button to increase the brightness and push the ▼ button to decrease the brightness (min 0 ~ max 100).
	Contrast	Adjust the Brightness first, and then adjust the Contrast only if further adjustment is necessary. Push the ▲ button to increase contrast and Push the ▼ button to decrease contrast (min 0 ~ max 100). The Contrast function adjusts the degree of difference between the darkest and lightest areas on the monitor screen.
	Back	Push ☰ to go back to or exit the main menu.

	Auto Adjust	Even though your computer recognizes your monitor on startup, the Auto Adjustment function optimizes the display settings **NOTE:** In most cases, Auto Adjust produces the best image for your configuration. This option is only available when you a connector.
	Input Source	The Input Source menu is to used to select between different video signals that may be connected to your monitor.
	Auto Select	**Scan for Sources.** Push ✓ to scan for available input signals.
	VGA	Select VGA input when you are using the analog (VGA) connector. Push ✓ to select the VGA input source.
	DVI-D	Select DVI-D input when you are using the Digital (DVI) connector. Push ✓ to select the DVI input source.
	Back	Push to go back to or exit the main menu.
	Color Settings	Use the color settings to adjust the Image mode and color format. **Image mode submenu for VGA/DVI-D input**



or

NOTE: Image modes are different between the VGA/DVI-D and Video inputs

Input Color Format Allows you to set the color format to:

PC RGB-Suitable for normal PC graphics display over DVI

HD YPbPr-Suitable for HD video playback over DVI.

Mode Selection Allows you to set the display mode to Graphics or Video. If your computer is connected to your monitor, choose Graphics. If

Preset modes

VGA/DVI-D input

Standard Mode suitable for desktop applications.

Multimedia Mode for multimedia applications, eg video playback.

Game Mode suitable for gaming applications.

Warm Select warm mode to obtain a red tint. This color setting is typically used for color-intensive applications (photograph image

Cool Select cool mode to obtain a bluish tint. This color setting is typically used for text based applications (spreadsheets, progra

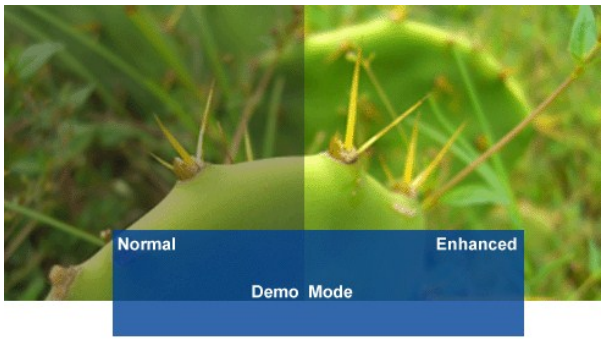
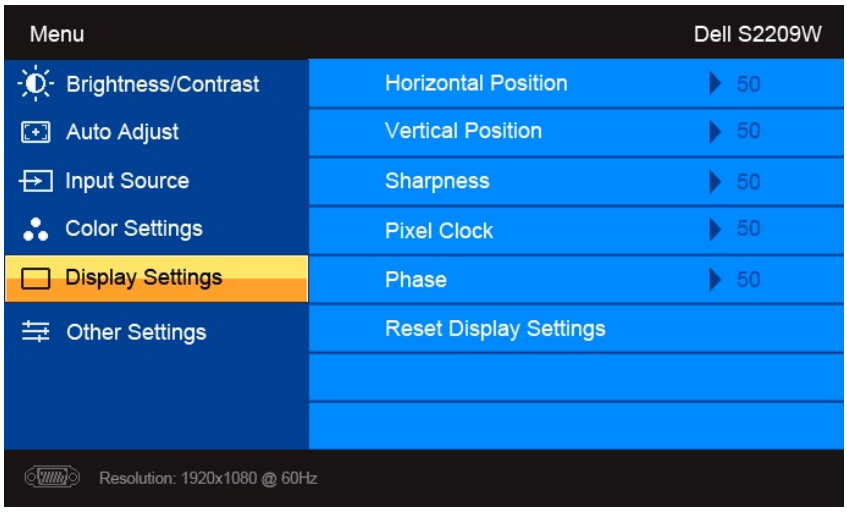
Custom (RGB) Use the ⌄ or ⌃ button to increase or decrease each of the three colors (R, G, B) independently, in single-digit increments.

Video input

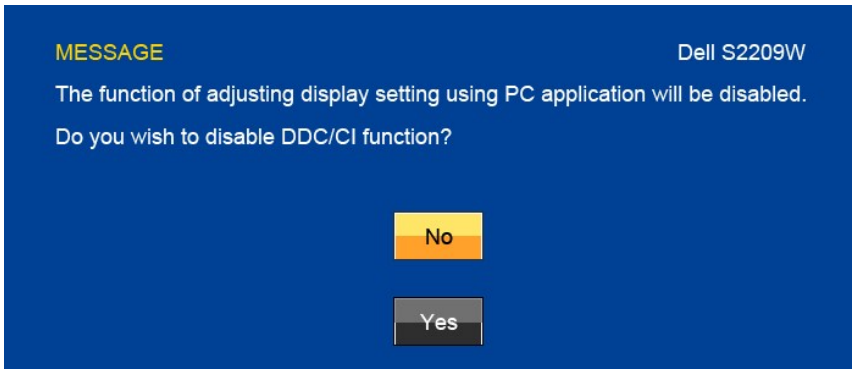
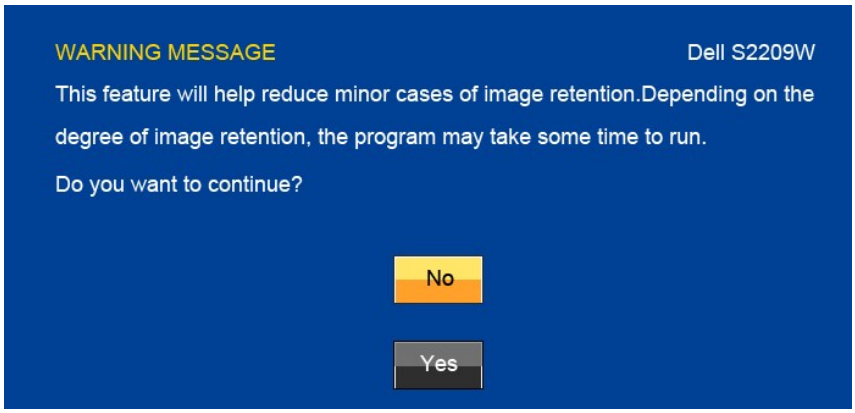
Movie Mode suitable for movie playback.

Game Mode suitable for game applications.

Sports Mode suitable for sports scenes.

	Nature	Mode suitable for nature scenes.
	Hue	This feature can make the video image color shift from green to purple. Use this feature to adjust the skin tone. Use ⌄ or ⌃ ⌄ increases the green hue in the image ⌃ increases the purple hue in the image **NOTE:** Hue adjustment is only available for video input.
	Saturation	Allows you to adjust the color saturation of the video image. Use ⌄ or ⌃ button to adjust the saturation from '0' to '100' ⌄ makes video image looks monochrome ⌃ makes video image looks colorful **NOTE:** Saturation adjustment is only available for video input.
	Demo Mode	Vertically splits the screen into two segments. The left half of the screen in the normal mode and the right half of the screer  **NOTE:** Demo Mode is only available for video input.
	Reset Color Settings	Returns your monitor color settings to those that were set at the time of manufacture.
	Back	Push ⏎ to go back to or exit the main menu.
▭	**Display Settings**	
	Horizontal Position	Use the ⌄ and ⌃ buttons to adjust image left and right. Minimum is '0' (-). Maximum is '100' (+).
	Vertical Position	Use the ⌄ and ⌃ buttons to adjust image up and down. Minimum is '0' (-). Maximum is '100' (+).

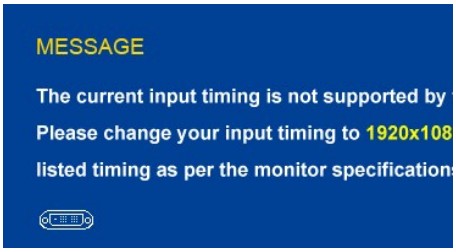
	Sharpness	This feature can make the image look sharper or softer. Use ˅ or ˄ to adjust the sharpness from '0' to '100' .
	Pixel Clock	The Phase and Pixel Clock adjustments allow you to adjust your monitor to your preference. These settings are accessed th 'Image Settings'. Use the ˅ and ˄ buttons to adjust for best image quality.
	Phase	If satisfactory results are not obtained using the Phase adjustment, use the Pixel Clock (coarse) adjustment and then use F **NOTE:** Pixel Clock and Phase Adjustments are only available for "VGA" input.
	Reset Display Settings	Resets the display settings to the original factory settings.
	Back	Push ⏎ to go back to or exit the main menu.
⚙	**Other Settings**	
	Language	Language option to set the OSD display to one of five languages (English, Espanol, Francais, Deutsch, Japanese).
	Menu Transparency	Allows you to adjust the OSD background from opaque to transparent.
	Menu Timer	OSD Hold Time: Sets the length of time the OSD will remain active after the last time you pushed a button. Use the ˅ and ˄ buttons to adjust the slider in 5 second increments, from 5 to 60 seconds.
	Menu Lock	Controls user access to adjustments. When selected, no user adjustments are allowed. All buttons are locked except the m **NOTE:** When the OSD is locked, pushing the menu button for 15 seconds will unlock and allow user access to all applicable pushing the menu button for 15 seconds will activate the Menu Lock function.
	DDC/CI	DDC/CI (Display Data Channel/Command Interface) allows your monitor parameters (brightness, color balance etc) to be ac can disable this feature by selecting "Disable". Enable this feature for best user experience and optimum performance of your monitor.

		
LCD Conditioning		If an image appears to be stuck on the monitor, select **LCD Conditioning** to help eliminate any image retention. Using the L several hours. Severe cases of image retention are known as burn-in, the LCD Conditioning feature does not remove burn-
		
Factory Reset		Reset all OSD settings to the factory preset values.
Back		Push to go back to or exit the main menu.

OSD Warning Messages

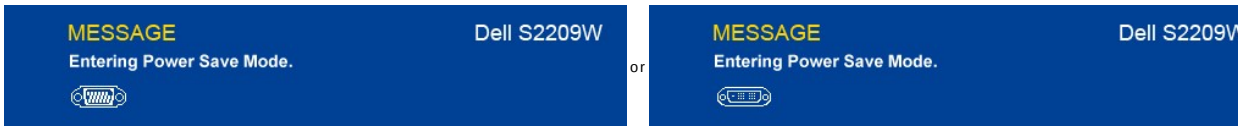
When the monitor does not support a particular resolution mode you will see the following message :

or



This means that the monitor cannot synchronize with the signal that it is receiving from the computer. See Monitor Specifications for the Horizontal and Vertical frequency ranges addressable by this monitor. The recommended mode is 1920 X 1080.

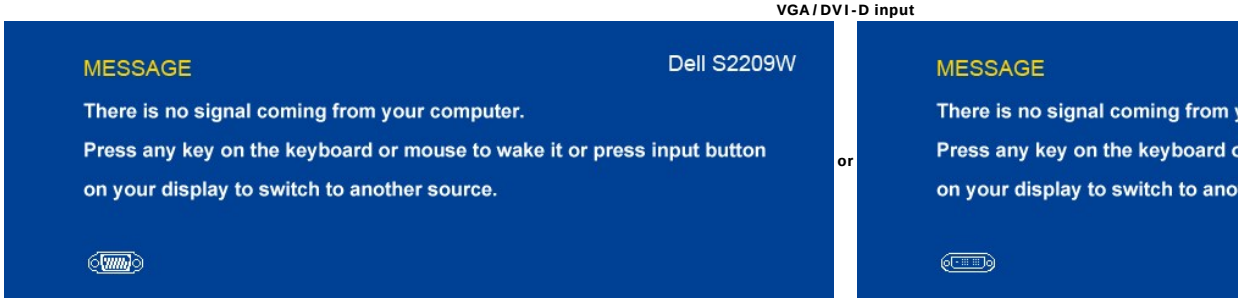
When monitor enters Power Save mode, the following message appears :



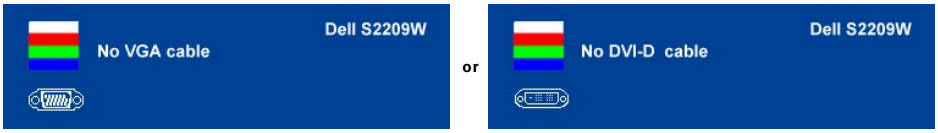
Activate the computer and wake up the monitor to gain access to the OSD

If you push any button other than the power button one of the following messages will appear depending on the selected input:

VGA / DVI-D input



If either VGA or DVI-D input is selected and all VGA and DVI-D cables are not connected, a floating dialog box as shown below appears.



See Solving Problems for more information.

Setting the Maximum Resolution

To set the maximum resolution for the monitor.

1. Right-click on the desktop and select **Properties**.
2. Select the **Settings** tab.
3. Set the screen resolution to 1920 x 1080.
4. Click **OK**.

If you do not see 1920 x 1080 as an option, you may need to update your graphics driver. Depending on your computer, complete one of the following procedures.

If you have a Dell desktop or portable computer:

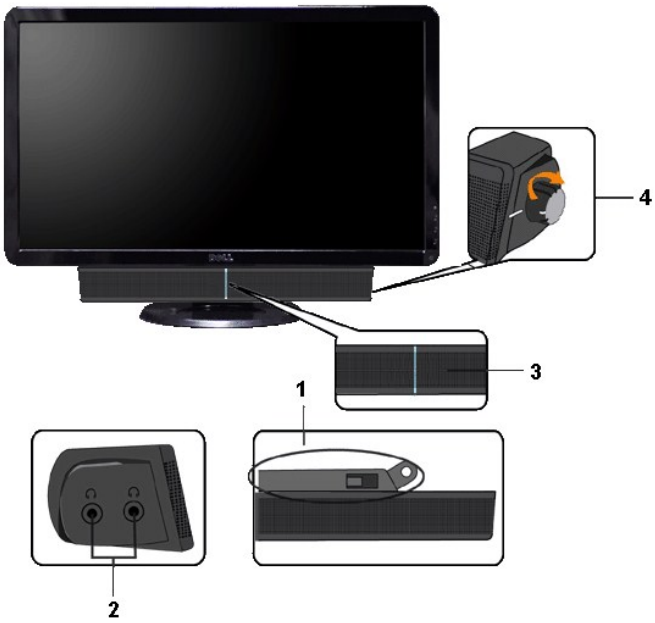
- Go to **support.dell.com**, enter your service tag, and download the latest driver for your graphics card.

If you are using a non-Dell computer (portable or desktop):

- Go to the support site for your computer and download the latest graphic drivers.
- Go to your graphics card website and download the latest graphic drivers.

Using the Dell Soundbar (Optional)

The Dell Soundbar is a stereo two channel system adaptable to mount on Dell flat panel displays. The Soundbar has a rotary volume and on/off control to adjust the overall system level, a blue LED for power indication, and two audio headset jacks.

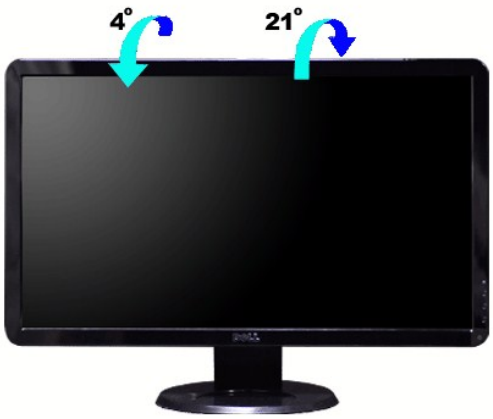


1. Attach mechanism
2. Headphone connectors
3. Power indicator
4. Power/Volume control

Using the Tilt

Tilt

With the built-in pedestal, you can tilt the monitor for the most comfortable viewing angle.



NOTE: The stand is attached when the monitor is shipped from the factory.

Back to Contents Page

Back to Contents Page

Setting Up Your Monitor

Dell™ S2209W Flat Panel Monitor

Important instructions to set the display resolution to 1920x1080 (Maximum)

For optimal display performance while using the Microsoft Windows® operating systems, set the display resolution to 1920 x 1080 pixels by performing the following steps:

1. Right-click on the desktop and click **Properties**.

2. Select the **Settings** tab.

3. Move the slider-bar to the right by pressing and holding the left-mouse button and adjust the screen resolution to **1920x1080**.

4. Click **OK**.

If you do not see **1920x1080** as an option, you may need to update your graphics driver. Please choose the scenario below that best describes the computer system you are using, and follow the provided directions:

1: **If you have a Dell™ desktop or a Dell™ portable computer with internet access.**

2: **If you have a non Dell™ desktop, portable computer, or graphics card.**

Back to Contents Page

Dell™ S2209W Flat Panel Monitor

- User Guide
- Important instructions to set the display resolution to 1920x1080(Maximum)

Information in this document is subject to change without notice.
© 2008–2009 Dell Inc. All rights reserved.

Reproduction of these materials in any manner whatsoever without the written permission of Dell Inc. is strictly forbidden.

Trademarks used in this text: *Dell* and the *DELL* logo, are trademarks of Dell Inc; *Microsoft* and *Windows* are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. *Adobe* is a trademark of Adobe Systems Incorporated, which may be registered in certain jurisdictions.

Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell Inc. disclaims any proprietary interest in trademarks and trade names other than its own.

Model S2209Wb

September 2009 Rev.A02

Back to Contents Page

Setting Up the Monitor

Dell™ S2209W Flat Panel Monitor User's Guide

- Connecting the Monitor
- Organizing Your Cables
- Attaching the Soundbar (optional)

Connecting Your Monitor

CAUTION: Before you begin any of the procedures in this section, follow the safety instructions.

To connect your monitor to the computer perform the following steps/instructions:

1. Turn off your computer and disconnect the power cable.
2. Connect either the white (digital DVI-D (optional)) or the blue (analog VGA) display connector cable to the corresponding video port on the back of your computer. Do not use both cables on the same computer. Use both the cables only when they are connected to two different computers with appropriate video systems.

Connecting the blue VGA cable

Connecting the white DVI cable (optional)

NOTE: All monitors may not ship with a DVI cable. To purchase a DVI cable Contact Dell.

NOTE: The Graphics are used for the purpose of illustration only. Appearance of the the computer may vary.

After you have completed connecting the DVI/VGA cable, follow the procedure below to complete your monitor setup:

1. Plug the power cables for your computer and monitor into a nearby outlet.
2. Turn on the monitor and the computer.
   If your monitor displays an image, installation is complete. If it does not display an image, see Solving Problems.
3. Use the cable management slot on the monitor stand to organize the cables.

Organizing Your Cables

After attaching all necessary cables to your monitor and computer, (See Connecting Your Monitor for cable attachment,) use the cable management slot to neatly organize all cables as shown above.

Attaching the Soundbar

1. Working from the rear of the monitor, attach the Soundbar by aligning the two slots with the two tabs along the bottom rear of the monitor.
2. Slide the Soundbar to the left until it snaps into place.
3. Connect the Soundbar with the DC power connector.
4. Insert the mini stereo plug from the rear of the Soundbar into the computer's audio output jack.

NOTICE: Do not use the brackets with any device other than the Dell Soundbar.

Back to Contents Page

Back to Contents Page

Solving Problems

Dell™ S2209W Flat Panel Monitor User's Guide

- Self-Test
- Built-in Diagnostics
- Common Problems
- Product Specific Problems
- Troubleshooting the Dell™ Soundbar (Optional)

CAUTION: Before you begin any of the procedures in this section, follow the Safety Instructions.

Self-Test

Your monitor provides a self-test feature that allows you to check whether your monitor is functioning properly. If your monitor and computer are properly connected but the monitor screen remains dark, run the monitor self-test by performing the following steps:

1. Turn off both your computer and the monitor.
2. Unplug the video cable from the back of the computer. To ensure proper Self-Test operation, remove both Digital (white connector) and the Analog (blue connector) cables from the back of computer.
3. Turn on the monitor.

The floating dialog box should appear on-screen (against a black background) if the monitor cannot sense a video signal and is working correctly. While in self-test mode, the power LED remains white. Also, depending upon the selected input, one of the dialogs shown below will continuously scroll through the screen.

4. This box also appears during normal system operation, if the video cable becomes disconnected or damaged.
5. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

If your monitor screen remains blank after you have performed Step 5, check your video controller and computer system.

Built-in Diagnostics

Your monitor has a built-in diagnostic tool that helps you determine if the screen abnormality you are experiencing is an inherent problem with your monitor, or with your computer and video card.

NOTE: You can run the built-in diagnostics only when the video cable is unplugged and the monitor is in *self-test mode*.

To run the built-in diagnostics:

1. Ensure that the screen is clean (no dust particles on the surface of the screen).
2. Unplug the video cable(s) from the back of the computer or monitor. The monitor then goes into the self-test mode.
3. Press and hold the and buttons on the front panel, simultaneously for 2 seconds. A gray screen appears.
4. Carefully inspect the screen for abnormalities.
5. Press the button on the front panel again. The color of the screen changes to red.
6. Inspect the display for any abnormalities.
7. Repeat steps 5 and 6 to inspect the display in green, blue, and white colored screens.

The test is complete when the white screen appears. To exit, press the button again.

If you do not detect any screen abnormalities upon using the built-in diagnostic tool, the monitor is functioning properly. Check the video card and computer.

OSD Warning Messages

For OSD-related issues, see OSD Warning Messages.

Common Problems

The following table contains general information about common monitor problems that you might encounter and the possible solutions.

Common Symptoms	What You Experience	Possible Solutions
No Video/ Power LED off	No picture	ı Ensure that the video cable connecting the monitor and the computer is properly co secure. ı Verify that the power outlet is functioning properly using any other electrical equipm ı Ensure that the power button depressed fully.
No Video/ Power LED on	No picture or no brightness	ı Increase brightness & contrast controls via OSD. ı Perform monitor self-test feature check. ı Check for bent or broken pins in the video cable connector. ı Run the built-in diagnostics.
Poor Focus	Picture is fuzzy, blurry, or ghosting	ı Perform Auto Adjust via OSD. ı Adjust the Phase and Pixel Clock controls via OSD. ı Eliminate video extension cables. ı Reset the monitor to Factory Settings. ı Change the video resolution to the correct aspect ration (16:9).
Shaky/Jittery Video	Wavy picture or fine movement	ı Perform Auto Adjust via OSD. ı Adjust the Phase and Pixel Clock controls via OSD. ı Reset the monitor to Factory Settings. ı Check environmental factors. ı Relocate the monitor and test in another room.
Missing Pixels	LCD screen has spots	ı Cycle power on-off. ı Pixel that is permanently off is a natural defect that can occur in LCD technology. ı Run the built-in diagnostics.
Stuck-on Pixels	LCD screen has bright spots	ı Cycle power on-off. ı Pixel that is permanently off is a natural defect that can occur in LCD technology. ı Run the built-in diagnostics.
Brightness Problems	Picture too dim or too bright	ı Reset the monitor to Factory Settings. ı Auto Adjust via OSD. ı Adjust brightness & contrast controls via OSD.
Geometric Distortion	Screen not centered correctly	ı Reset the monitor to Factory Settings. ı Auto Adjust via OSD. ı Adjust brightness & contrast controls via OSD. **NOTE:** When using 'DVI-D', the positioning adjustments are not available.
Horizontal/Vertical Lines	Screen has one or more lines	ı Reset the monitor to Factory Settings. ı Perform Auto Adjust via OSD. ı Adjust Phase and Pixel Clock controls via OSD. ı Perform monitor self-test feature check and determine if these lines are also in self-t ı Check for bent or broken pins in the video cable connector. ı Run the built-in diagnostics. **NOTE:** When using 'DVI-D', the Pixel Clock and Phase adjustments are not available.
Synchronization Problems	Screen is scrambled or appears torn	ı Reset the monitor to Factory Settings. ı Perform Auto Adjust via OSD. ı Adjust Phase and Pixel Clock controls via OSD. ı Perform monitor self-test feature check to determine if scrambled screen appears in mode. ı Check for bent or broken pins in the video cable connector. ı Restart the computer in the *safe mode*.
Safety Related Issues	Visible signs of smoke or sparks	ı Do not perform any troubleshooting steps. ı Contact Dell immediately.
Intermittent Problems	Monitor malfunctions on & off	ı Ensure that the video cable connecting the monitor to the computer is connected pr secure. ı Reset the monitor to Factory Settings. ı Perform monitor self-test feature check to determine if the intermittent problem occu mode.
Missing Color	Picture missing color	ı Perform monitor self-test feature check. ı Ensure that the video cable connecting the monitor to the computer is connected pr secure. ı Check for bent or broken pins in the video cable connector. ı Run the built-in diagnostics.
Wrong Color	Picture color not good	ı Change the Color Setting Mode in the Color Settings OSD to Graphics or Video depe application. ı Try different Color Preset Settings in Color Settings OSD. Adjust R/G/B value in Color if the Color Management is turned off. ı Change the Input Color Format to PC RGB or YPbPr in the Advance Setting OSD. ı Run the built-in diagnostics.
Image retention from a static image left on the monitor for a long period of time	Faint shadow from the static image displayed appears on the screen	ı Use the Power Management feature to turn off the monitor at all times when not in information, see Power Management Modes). ı Alternatively, use a dynamically changing screensaver.

Product Specific Problems

SPECIFIC SYMPTOMS	WHAT YOU EXPERIENCE	POSSIBLE SOLUTIONS
Screen image is too small	Image is centered on screen, but does not fill entire viewing area	ı Perform monitor reset on "Factory Reset"
Cannot adjust the monitor with the buttons on the front panel	OSD does not appear on the screen	ı Turn the monitor off and unplug the power cord and then plug back and power on
No Input Signal when user controls pressed	No picture, the LED light is amber. When press "^", "v" or "Menu" key, the message " No VGA cable" or "No DVI-D cable" will appear.	ı Check the signal source Make sure the Computer is not in power saving by moving pressing any key on the keyboard. ı Check whether the signal cable is plugged in and seated properly. Re-plug the sig necessary. ı Re-boot the computer or video player.
The monitor will not fill the entire screen.	The picture can't fill the height or width of the screen.	ı Due to the non-standard formats of DVDs, the monitor may not show the full scree

NOTE: When choosing DVI-D, Auto Adjust function is not available.

Troubleshooting the Dell™ Soundbar

COMMON SYMPTOMS	WHAT YOU EXPERIENCE	POSSIBLE SOLUTIONS
No Sound	Soundbar has power - power indicator is on.	ı Plug the audio line-in cable into the computer's audio out jack. ı Set all Windows volume controls to their maximum. ı Play some audio content on the computer (i.e. audio CD, or MP3). ı Turn the Power/Volume knob on the Soundbar clockwise to a higher volume setting ı Clean and reseat the audio line-in plug. ı Test the Soundbar using another audio source (i.e. portable CD player).
Distorted Sound	Computer's sound card is used as the audio source.	ı Clear any obstructions between the Soundbar and the user. ı Confirm that the audio line-in plug is completely inserted into the jack of the sound ı Set all Windows volume controls to their midpoints. ı Decrease the volume of the audio application. ı Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume ı Clean and reseat the audio line-in plug. ı Troubleshoot the computer's sound card. ı Test the Soundbar using another audio source (i.e. portable CD player).
Distorted Sound	Other audio source is used.	ı Clear any obstructions between the Soundbar and the user. ı Confirm that the audio line-in plug is completely inserted into the jack of the audio s ı Decrease the volume of the audio source. ı Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume ı Clean and reseat the audio line-in plug.
Unbalanced Sound Output	Sound from only one side of Soundbar	ı Clear any obstructions between the Soundbar and the user. ı Confirm that the audio line-in plug is completely inserted into the jack of the sound source. ı Set all Windows audio balance controls (L-R) to their midpoints. ı Clean and reseat the audio line-in plug. ı Troubleshoot the computer's sound card. ı Test the Soundbar using another audio source (i.e. portable CD player).
Low Volume	Volume is too low.	ı Clear any obstructions between the Soundbar and the user. ı Turn the Power/Volume knob on the Soundbar clockwise to the maximum volume se ı Set all Windows volume controls to their maximum. ı Increase the volume of the audio application. ı Test the Soundbar using another audio source (i.e. portable CD player).

Back to Contents Page